

# Delphion

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## Novel 5-oxy-2-phenyl-pyrimidine(s) - useful in liq. crystal mixts., e.g. for super-twist displays

Assignee: **MERCK PATENT GMBH** Standard company (MERE...)  
 Inventor: **COATES D; FINKENZEL U; HITTICH R; POETSCH E; WACHTLER A;**

Accession / Update: **1991-066393 / 199110**

IPC Code: **C07D 213/65 ; C07D 239/34 ; C09K 19/34 ; G02F 1/13 ;**

Derwent Classes: **E13; L03; P81; U11; V07;**

Manual Codes: **E07-D12(Pyrimidine) , L03-D01D1(Liquid crystal compounds) , U11-A03(Liquid crystal, electrochromic materials) , V07-K(Controlling light)**

Derwent Abstract

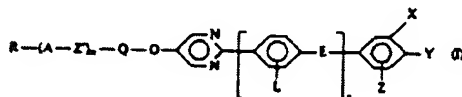
### DERWENT RECORD

(DE3928267A) Novel 5-oxy-2-phenylpyrimidines of formula (I) are claimed as is their use in liq. crystal media esp. where (I) is of a mixt. of liq. crystal components. R = H or alk(en)yl or oxaalkyl with up to 12C, A = opt. F substd. 1,4-phenylene, trans-1,4-cyclohexylene, 1,3-cyclobutylene, Z' = CH<sub>2</sub>CH<sub>2</sub>-, -CH<sub>2</sub>O-, -OCH<sub>2</sub>-, -CO-, -O.CO-, or a bond, Q = -CH<sub>2</sub>- or -CO-, L = H or F, E = -CH<sub>2</sub>CH<sub>2</sub>-, (II), -C=C- (III) or a bond, n = 0 or 1, m = 0 or 1 or, when n = 0 also 2, X and Z = H or F, and Y = CN, NCS, F, Cl, CF<sub>3</sub>, CHF<sub>2</sub>, OCHF<sub>2</sub> or OCF<sub>3</sub>.

USE/Advantage - (I) are similar to the cpds. of DE3315295 and are stable liq. crystal or mesogenic cpds. with a relatively high double refraction. They can be used to make stable liq. crystal media with relatively high optical and positive dielectric-anisotropy esp. being used in mixts. for STN displays. In STN displays their use results in low temp. dependence of threshold voltage, high elec. resistance, and good low temp. stability. Also they show good miscibility with other components.

Abstract info: **DE3928267A: Dwg.0/0M**

Images:



Family:

| Patent  | Pub. Date      | DW Update | Pages | Language | IPC Code    |
|---|----------------|-----------|-------|----------|-------------|
| <b>DE3928267A *</b>   | Feb. 28, 1991  | 199110    |       | German   | C07D 213/16 |
| Local apps.: <b>DE1989003928267</b> ApplDate:1989-08-26 (89DE-3928267)                                    |                |           |       |          |             |
| <b>JP4501574W =</b>   | March 19, 1992 | 199218    | 9     | English  | C07D 213/65 |
| Local apps.: Based on <b>WO9102726</b> (WO 9102726)<br>JP1990000511994 ApplDate:1990-08-18 (90JP-0511994) |                |           |       |          |             |
| <b>EP0440771A =</b>   | Aug. 14, 1991  | 199133    |       | English  | C07D 213/65 |
| Des. States: (R) DE GB<br>Local apps.: <b>EP1990000912908</b> ApplDate:1990-08-18 (90EP-0912908)          |                |           |       |          |             |
| <b>WO9102726A =</b>   | March 07, 1991 | 199112    |       | English  | C07D 213/65 |
| Des. States: (N) JP US<br>(R) AT BE CH DE DK ES FR GB IT LU NL SE<br>Local apps.:                         |                |           |       |          |             |

Priority Number:

| Application Number     | Application Date | Original Title  |
|------------------------|------------------|---|
| <b>DE1989003928267</b> | Aug. 26, 1989    | <b>5-OXY-2-PHENYLPYRIMIDINE UND FLUESSIGKRISTALLINES MEDIUM</b> |

Citations:



**CH0622548** : FLUESSIGKRISTALLMISCHUNGEN.  
**DE2547737** : PHENYLPYRIMIDINE  
**DE2641724** : PYRIMIDINDERIVATE  
**EP0193191** : PYRIMIDINE DERIVATIVE AND LIQUID CRYSTAL COMPOSITION CONTAINING SAME

EP0227004 : LIQUID CRYSTALLINE ETHANE DERIVATIVES, THEIR PREPARATION AND THE LIQUID CRYSTAL COMPOSITIONS CONTAINING SAME  
 EP0387032 : TRIFLUOROBENZENE DERIVATIVES AND LIQUID CRYSTAL COMPOSITIONS CONTAINING THE SAME  
 JP56002368 : NEMATIC LIQUID CRYSTAL COMPOSITION  
 JP56002369 : NEMATIC LIQUID CRYSTAL COMPOSITION  
 JP56002376 : NEMATIC LIQUID CRYSTAL COMPOSITION  
 JP62192368 : FLUOROALKYLPYRIMIDINE DERIVATIVE  
 WO8704426 : VINYL COMPOSITIONS  
 WO8902884 : SUBSTITUTED PHENYLTRIFLUORMETHYLETERS  
 WO9001021 : FLUORINATED ALKOXYL COMPOUNDS  
 - 4.Jnl.Ref

Related Accessions:





| Accession Number | Type | Derwent Update | Derwent Title |
|------------------|------|----------------|---------------|
| C1991-028092     | C    |                |               |
| N1991-051378     | N    |                |               |
| 2 items found    |      |                |               |

Title Terms: NOVEL OXY PHENYL PYRIMIDINE USEFUL LIQUID CRYSTAL MIXTURE SUPER TWIST DISPLAY

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